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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,167	04/13/2007	Hiroshi Katsunaga	5000-5310	3765
	7590 11/21/200° FINNEGAN, L.L.P.	7	EXAMINER	
3 WORLD FIN	IANCIAL CENTER	1	NGUYEN, PATRICIA T	
NEW YORK, NY 10281-2101			ART UNIT	PAPER NUMBER
			2817	
			NOTIFICATION DATE	DELIVERY MODE
			11/21/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOPatentCommunications@Morganfinnegan.com Shopkins@Morganfinnegan.com jmedina@Morganfinnegan.com

	,	Application No.	Applicant(s)			
Office Action Summary		10/580,167	KATSUNAGA ET AL.			
		Examiner	Art Unit			
		Patricia T. Nguyen	2817			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	·					
1)[]	Responsive to communication(s) filed on					
, —	•	action is non-final.				
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
ت (۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	·					
	on of Claims					
,	4) Claim(s) is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
'=	5) Claim(s) <u>5-10</u> is/are allowed.					
•	Claim(s) <u>1 and 4</u> is/are rejected.					
-	Claim(s) 2 and 3 is/are objected to.	L. K				
8)[_]	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are: a) ☐ acc	epted or b) \square objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen		4) Interview Summary	(PTO-413)			
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate ·			
3) X Infor	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 4/13/07,5/18/06	5) Notice of Informal F 6) Other:	Patent Application			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lunn, U.S. Patent # 3,641,450.

Fig. 1 of Lunn discloses a circuit comprising: first and second field-effect transistors (101, 102) for differentially amplifying an input signal and an inverted input signal obtained by inverting the input signal; a third field-effect transistor (134, 135) that is connected between a source of the first field-effect transistor and a source of the second field-effect transistor and to the gate of which a control voltage for controlling differential amplification gain of the first and second field-effect transistors; and a bias circuit (140, 141) for applying a DC bias voltage for operating the third field- effect transistor in a non-saturated region (see spec. col. 4, lines 17-21).

Although Lunn uses bipolar transistors instead of field effect transistors in his circuit, these are just different types of transistors and it would have been obvious at the time the invention was made to a person having ordinary skill in the art to substitute one for the other in the absence of unexpected results in order to have an optimum working condition for the circuit since such substitution is well known in the art.

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Regarding claim 4, resistors 130, 131 can be read as a resistor is connected in parallel with the third field-effect transistor.

Allowable Subject Matter

Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 5-10 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents # 5,642,077, # 6,744,320 B2, # 7,215,196 B2, # 2006/0044064 A1, and # 2007/0236289 A1 contain some limitations of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T. Nguyen whose telephone number is (571) 272-1768. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Patricia Nguyen
PTN

November 12, 2007

Primary Examiner

AU 2817